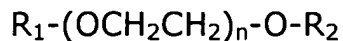


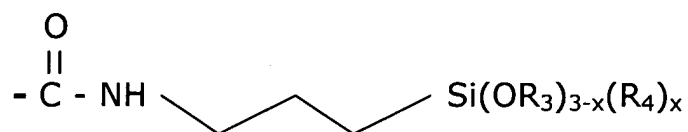
This listing of claims will replace all prior versions, and listings of claims in the application:

1. (Cancelled)
2. (Previously Presented) A coating composition that is capable of being tinted after application to a substrate, comprising:

a tint additive represented by the formula:



wherein at least one of  $R_1$  and  $R_2$  is silane containing group represented by the formula:



where  $R_3$  is H, an alkyl group containing from about 1 to about 5 carbon atoms, or an acetyl group, and where  $R_4$  is H, an epoxy functional group, an alkyl group, a functional alkyl group, an alkylene group, an aryl group, an alkyl ether, and combinations thereof containing from about 1 to about 10 carbon atoms, where X is an integer from 0 to about 3 and n is a positive

integer, and where only one of  $R_1$  or  $R_2$  is the silane containing group,  $R_1$  or  $R_2$  is H; and

a base compound selected from the group of base compounds consisting of:

- (1) an aqueous organic solvent mixture containing from about 10 to about 99.9 weight percent, based on the total solids of the composition, of a mixture of hydrolysis products and partial condensates of an epoxy functional silane and a tetrafunctional silane and from about 0.1 to about 30 weight percent, based on the total solids of the composition, of a multifunctional compound, selected from the group consisting of multifunctional carboxylic acids, multifunctional anhydrides and combinations thereof, the epoxy functional silane and the tetrafunctional silane are present in the aqueous organic solvent mixture in a molar ratio of from about 0.1:1 to about 5:1, the coating compositions may further include from about 0.1 to about 50 weight percent of a mixture of hydrolysis products and partial condensates of one or more silane additives, based on the total solids of the composition, and/or an amount of colloidal silica or a metal oxide or combinations thereof equivalent to from about 0.1 to about

50 weight percent solids, based on the total solids of the composition;

- (2) an aqueous organic solvent mixture containing from about 10 to about 99.9 weight percent, based on the total solids of the composition, of a mixture of hydrolysis products and partial condensates of an epoxy functional silane, a disilane, and from about 0.01 to about 80 weight percent, based on the total weight of the composition, of a carboxylic acid functional compound selected from the group consisting of carboxylic acids, multifunctional carboxylic acids, anhydrides, and combinations thereof, the epoxy functional silane and the disilane are present in the aqueous organic solvent mixture in a molar ratio of from about 0.05:1 to about 5:1, the coating compositions may further include from about 0.1 to about 80 weight percent of a mixture of hydrolysis products and partial condensates of one or more silane additives, based on the total solids of the composition, and/or an amount of colloidal silica or a metal oxide or combinations thereof, equivalent to from about 0.1 to about 75 weight percent solids, based on the total solids of the composition;

- (3) an aqueous organic solvent mixture containing from about 10 to about 90 weight percent, based on the total solids of the composition, of a mixture of hydrolysis products and partial condensates of an epoxy functional silane, from about 1 to about 90 weight percent, based on the total solids of the composition, of a carboxylic acid functional compound selected from the group consisting of carboxylic acids, multifunctional carboxylic acids, anhydrides, and combinations thereof, from about 1 to 90 weight percent, based on the total weight of the composition, of a metal oxide composite colloid, and from about 1 to 75 weight percent, based on the total solids of the composition, of a colloidal silica material, the coating compositions may further include from about 0.1 to about 50 weight percent of a mixture of hydrolysis products and partial condensates of one or more silane additives, based on the total solids of the composition;
- (4) an aqueous organic solvent mixture containing from about 10 to about 90 weight percent, based on the total solids of the composition, of a mixture of hydrolysis products and partial condensates of an epoxy functional silane, from about 1 to about 90 weight percent, based on the total weight of the composition,

of a carboxylic acid functional compound selected from the group consisting of carboxylic acids, multifunctional carboxylic acids, anhydrides, and combinations thereof, from about 1 to 90 weight percent, based on the total solids of the composition, of a metal oxide composite colloid, from about 1 to 75 weight percent, based on the total solids of the composition, of a colloidal silica material, and from about 1 to 75 weight percent, based on the total solids of the composition, of a tetrafunctional silane;

- (5) an aqueous organic solvent mixture containing from about 10 to about 90 weight percent, based on the total solids of the composition, of a mixture of hydrolysis products and partial condensates of an epoxy functional silane, from about 1 to about 90 weight percent, based on the total weight of the composition, of a carboxylic acid functional compound selected from the group consisting of carboxylic acids, multifunctional carboxylic acids, anhydrides, and combinations thereof, from about 1 to 90 weight percent, based on the total solids of the composition, of a metal oxide composite colloid, and from about 1 to 75 weight percent, based on the total solids of the composition, of a disilane; and
- (6) combinations thereof.

3. (Original) The composition of claim 2 wherein the hydrolysis products and partial condensates of the epoxy functional silane and the tetrafunctional silane are present in the aqueous-organic solvent mixture in an amount of from about 10 to about 99.9 weight percent, based on the total solids of the coating composition and wherein the multifunctional compound is present in the aqueous-organic solvent mixture in an amount of from about 0.1 to about 30 weight percent, based on the total solids of the coating composition.

4. (Original) The composition of claim 2 wherein the solvent constituent of the aqueous-organic solvent mixture is selected from the group consisting of an alcohol, an ether, a glycol, a glycol ether, an ester, a ketone, a glycolether acetate and mixtures thereof.

5. (Original) The composition of claim 2 wherein the solvent constituent of the aqueous-organic solvent mixture is an alcohol having the general formula ROH where R is an alkyl group containing from 1 to about 10 carbon atoms.

6. (Original) The composition of claim 2 wherein the solvent constituent of the aqueous-organic solvent mixture is selected from the group consisting of a glycol, an ether, a glycol ether and mixtures thereof having the formula  $R^1-(OR^2)_x-OR^1$  where x is an integer of 0, 1, 2, 3 or 4,  $R^1$  is H or an alkyl group containing from 1 to about 10 carbon atoms and  $R^2$  is an alkylene group containing from 1 to about 10 carbon atoms and combinations thereof.

7. (Original) The composition of claim 2 wherein the epoxy functional silane is present in a molar ratio to the tetrafunctional silane of from about 0.1:1 to about 3:1.

8. (Original) The composition of claim 2 wherein the epoxy functional silane is represented by the formula  $R^3_xSi(OR^4)_{4-x}$  where x is an integer of 1, 2 or 3,  $R^3$  is H, an alkyl group, a functionalized alkyl group, an alkylene group, an aryl group, an alkyl ether, and combinations thereof containing from 1 to about 10 carbon atoms and having at least 1 epoxy functional group, and  $R^4$  is H, an alkyl group containing from 1 to about 5 carbon atoms, an acetyl group, a  $-Si(OR^5)_{3-y}R^6_y$  group where y is an integer of 0, 1, 2, or 3, and combinations thereof where  $R^5$  is H, an alkyl group containing

from 1 to about 5 carbon atoms an acetyl group, another  $-\text{Si}(\text{OR}^5)_{3-y}\text{R}^6_y$  group and combinations thereof, and  $\text{R}^6$  is H, an alkyl group, a functionalized alkyl group, an alkylene group, an aryl group, an alkyl ether and combinations thereof containing from 1 to about 10 carbon atoms.

9. (Original) The composition of claim 8 wherein the tetrafunctional silane is represented by the formula  $\text{Si}(\text{OR}^7)_4$  where  $\text{R}^7$  is H, an alkyl group containing from 1 to about 5 carbon atoms and ethers thereof, an  $(\text{OR}^7)$  carboxylate, a  $-\text{Si}(\text{OR}^8)_3$  group where  $\text{R}^8$  is a H, an alkyl group containing from 1 to about 5 carbon atoms and ethers thereof, an  $(\text{OR}^8)$  carboxylate, another  $-\text{Si}(\text{OR}^8)_3$  group and combinations thereof.

10. (Original) The composition of claim 2 wherein the hydrolysis products and partial condensates of the epoxy functional silane and the tetrafunctional silane are present in the aqueous-organic solvent mixture in an amount of from about 10 to about 99.9 weight percent, based on the total solids of the coating composition and wherein the multifunctional compound is present in the aqueous-organic solvent mixture in an amount of from about 0.1 to about 30 weight percent, based on the total solids of the coating composition and wherein the epoxy functional silane is represented



by the formula  $R^3_xSi(OR^4)_{4-x}$  where x is an integer of 1, 2 or 3,  $R^3$  is H, an alkyl group, a functionalized alkyl group, an alkylene group, an aryl group, an alkyl ether, and combinations thereof containing from 1 to about 10 carbon atoms and having at least 1 epoxy functional group, and  $R^4$  is H, an alkyl group containing from 1 to about 5 carbon atoms, an acetyl group, a  $-Si(OR^5)_{3-y}R^6_y$  group where y is an integer of 0, 1, 2, or 3, and combinations thereof where  $R^5$  is H, an alkyl group containing from 1 to about 5 carbon atoms, an acetyl group, or another  $-Si(OR^5)_{3-y}R^6_y$  group and combinations thereof, and  $R^6$  is H, an alkyl group, a functionalized alkyl group, an alkylene group, an aryl group, an alkyl ether, and combinations thereof containing from 1 to about 10 carbon atoms.

11. (Original) The composition of claim 10 wherein the tetrafunctional silane is represented by the formula  $Si(OR^7)_4$  where  $R^7$  is H, an alkyl group containing from 1 to about 5 carbon atoms and ethers thereof, an  $(OR^7)$  carboxylate, a  $-Si(OR^8)_3$  group where  $R^8$  is a H, an alkyl group containing from 1 to about 5 carbon atoms and ethers thereof, an  $(OR^8)$  carboxylate, another  $-Si(OR^8)_3$  group and combinations thereof.

12. (Original) The composition of claim 11 wherein the solvent constituent of the aqueous-organic solvent mixture is an alcohol having the general formula ROH where R is an alkyl group containing from 1 to about 10 carbon atoms.

13. (Original) The composition of claim 11 wherein the solvent constituent of the aqueous-organic solvent mixture is selected from the group consisting of a glycol, an ether, a glycol ether and mixtures thereof having the formula  $R^1-(OR^2)_x-OR^1$  where x is an integer of 0, 1, 2, 3 or 4,  $R^1$  is H or an alkyl group containing from 1 to about 10 carbon atoms and  $R^2$  is an alkylene group containing from 1 to about 10 carbon atoms and combinations thereof.

14. (Original) The composition of claim 11 wherein the amount of water present in the aqueous-organic solvent mixture is an amount sufficient to provide a substantially homogeneous mixture of hydrolysis products and partial condensates of the epoxy functional silane and the tetrafunctional silane.

15. (Original) The composition of claim 2 wherein the tetrafunctional silane is represented by the formula  $\text{Si}(\text{OR}^7)_4$  where  $\text{R}^7$  is H, an alkyl group containing from 1 to about 5 carbon atoms and ethers thereof, an  $(\text{OR}^7)$  carboxylate, a  $-\text{Si}(\text{OR}^8)_3$  group where  $\text{R}^8$  is a H, an alkyl group containing from 1 to about 5 carbon atoms and ethers thereof, an  $(\text{OR}^8)$  carboxylate, another  $-\text{Si}(\text{OR}^8)_3$  group and combinations thereof.

16. (Original) The composition of claim 2 wherein at least a portion of the solvent component of the aqueous-organic solvent mixture is generated during hydrolysis of the epoxy functional silane and the tetrafunctional silane.

17. (Original) The composition of claim 2 further comprising an effective amount of a catalyst to provide enhanced abrasion resistance to a coating produced by curing the composition.

18. (Original) The composition of claim 17 wherein the effective amount of the catalyst is from about 0.1 to about 10 weight percent, based on the total solids of the composition.

19. (Original) The composition of claim 18 wherein the aqueous-organic solvent mixture further comprises from about 0.1 to about 50 weight percent, based on the total solids of the composition, of a mixture of hydrolysis products and partial condensates of a silane additive represented by the formula



where x is an integer of 1, 2 or 3,  $R^9$  is H, an alkyl group containing from 1 to about 10 carbon atoms, a functionalized alkyl group, an alkylene group, an aryl group, an alkyl ether group and combinations thereof,  $R^{10}$  is H, an alkyl group containing from 1 to about 10 carbon atoms, an acetyl group and combinations thereof.

20. (Original) The composition of claim 19 wherein the aqueous-organic solvent mixture further comprises:

an effective amount of a leveling agent to spread the aqueous-organic solvent mixture on the substrate and provide substantially uniform contact of the aqueous-organic solvent mixture with the substrate.

21. (Original) The composition of claim 2 wherein the aqueous-organic solvent mixture further comprises from about 0.1 to about 50 weight percent, based on the total solids of the composition, of a mixture of hydrolysis products and partial condensates of a silane additive represented by the formula



where x is an integer of 1, 2 or 3,  $R^9$  is H, an alkyl group containing from 1 to about 10 carbon atoms, a functionalized alkyl group, an alkylene group, an aryl group an alkyl ether group and combinations thereof,  $R^{10}$  is H, an alkyl group containing from 1 to about 10 carbon atoms, an acetyl group and combinations thereof.

22. (Original) The composition of claim 21 wherein the aqueous-organic solvent mixture further comprises:

an effective amount of a leveling agent to spread the aqueous-organic solvent mixture on the substrate and provide substantially uniform contact of the aqueous-organic solvent mixture with the substrate.

23. (Original) The composition of claim 2 wherein the aqueous-organic solvent mixture further comprises:

from about 0.1 to about 50 weight percent, based on the total solids of the composition, of a mixture of hydrolysis products and partial condensates of a silane additive represented by the formula



where x is an integer of 1, 2 or 3,  $R^9$  is H, an alkyl group containing from 1 to about 10 carbon atoms, a functionalized alkyl group, an alkylene group, an aryl group an alkyl ether group and combinations thereof,  $R^{10}$  is H, an alkyl group containing from 1 to about 10 carbon atoms, an acetyl group and combinations thereof; and

an effective amount of colloidal silica to provide the composition with from about 0.1 to about 50 weight percent silica, based on the total of solids present in the composition.

24. (Original) The composition of claim 20 further comprising an effective amount of a catalyst to provide enhanced abrasion resistance to a coating produced by curing the composition.

25. (Original) The composition of claim 23 wherein the effective amount of the catalyst is from about 0.1 to about 10 weight percent, based on the total solids of the composition.

26. (Original) The composition of claim 23 wherein the aqueous-organic solvent mixture further comprises:

an effective amount of a leveling agent to spread the aqueous-organic solvent mixture on the substrate and provide substantially uniform contact of the aqueous-organic solvent mixture with the substrate.

27. (Original) The composition of claim 2 wherein the aqueous-organic solvent mixture further comprises:

an effective amount of colloidal silica to provide the composition with from about 0.1 to about 50 weight percent silica, based on the total of solids present in the composition.

28. (Original) The composition of claim 27 wherein the aqueous-organic solvent mixture further comprises:

an effective amount of leveling agent to spread the aqueous-organic solvent mixture on the substrate and provide substantially uniform contact of the aqueous-organic solvent mixture with the substrate.

29. (Original) The composition of claim 28 wherein the aqueous-organic solvent mixture further comprises an effective amount of a catalyst to provide enhanced abrasion resistance to the coating produced by curing the aqueous solvent mixture.

30. (Original) The composition of claim 29 wherein the effective amount of catalyst present in the aqueous-organic solvent mixture is from about 0.1 to about 10 weight percent, based on the total solids of the aqueous-organic solvent mixture.

31. (Original) The composition of claim 29 wherein the aqueous-organic solvent mixture further comprises from about 0.1 to about 50 weight percent, based on the total of solids of the aqueous-organic solvent mixture,



of a mixture of hydrolysis products and partial condensates of a silane additive represented by the formula



where x is an integer of 1, 2 or 3,  $R^9$  is H, an alkyl group containing from 1 to about 10 carbon atoms, a functionalized alkyl group, an alkylene group, an aryl group, an alkyl ether group and combinations thereof,  $R^{10}$  is H, an alkyl group containing from 1 to about 10 carbon atoms, an acetyl group and combinations thereof.

32. (Original) The composition of claim 2 wherein the aqueous-organic solvent mixture further comprises:

an effective amount of a leveling agent to spread the aqueous-organic solvent mixture on the substrate and provide substantially uniform contact of the aqueous-organic solvent mixture with the substrate.

33. (Cancelled)

34. – 66. (Cancelled)

67. (Cancelled)

68. – 96. (Cancelled)